HISTORY OF SCIENCE I

lst TERM

Aristotelian Physics Lecture I

(Selected passages from Aristotle: (M.L.R.) Physica, De Caelo and De Generatione et

Corruptione)

Greek biologyt observation and Lecture II classification of living forms. (M.P.E.)

Aristotle; Theorphrastus; Dioscorides.

Lecture III Aristotelian Physics Cont.

(M.L.R)

Lecture IV Animal Physics, generation, medical physiology. Aristotle, Hyppocratic (M.P.E.)

School, Erasistratus, Herophilus,

Eratosthenes

Galen.

The development of Astronomy to Anistandus, 1500 Applications, Ptolemy, Englostheres, Arabic Astronomy Lecture V (M.L.R)

Arabic Astronomy.

Lecture VI Greco-Arabic science and its reception in the Christian West. The development (M.P.E.)

of Alchemy.

The development of Mechanics to 1500/-Lecture VII

Archimedes, Buridan, Oresme. (M.L.R.)

Lecture VIII Alchemy in Europe.

(M.P.E.)

Lecture IX Copernicus.

(M.L.R.)

Lecture X Anatomy and Physiology in the 16th C.

(M.P.E.)

Kepler. Lecture XI

(M.L.R.)

Harvey: de Motu Cordis, Selected passages from Galileo: The Sidereal Messenger, The Assayer, Vacation Reading:

The Dialogo and the Discarsi.

2nd TERM

Lecture I	Galileo - Contribution to Astronomy.
(M.L.R.)	
Lecture II	William Harvey and the discovery of
(M.P.E.)	the circulation of the blood: the reception of Harvey's discoveries: Mechanism and Vitalism.
第一十二十二	
Lecture III	Galileo - Contributions to Mechanics.
(M.L.R.)	
Lecture IV (M.P.E.)	Harvey and others on Generation: Embricalogy; Preformation and Epigenisis.
Lecture V	Gilbert - Early theories of magnetism.
(M.L.R.)	
Lecture VI	The Classical Microscopists: biogenesis
(M.P.E.)	and abiogenesis.
Lecture VII	Descartes - The mechanical world view.
(M.L.R.)	
Lecture VIII	Herbals, Encyclopaedic Naturalists,
(M.P.E.)	the problem of taxonomy.
Lecture IX	Bacon and the experimental method.
(M.L.R.)	
Lecture X	Mining and chemical technology.
(M.P.E.)	Biringuccio; Agricola.
Lecture XI	Huyghens, Leibniz and Hooke. The
(M.L.R.)	development of mechanics prior to Newton.

Vacation Reading: Selected passages from Newton: Principia and Optichs

3rd Term

Lecture I (M.L.R.)

Lecture II Scientific Societies in the 17th C. (M.P.E.)

Lecture III Newton on Mechanics (M.L.R.)

Lecture IV Newton's work on optics.

HISTORY OF SCIENCE II

1st TERM

D.A.G.

7 lectures on the discovery of non-Euclidean geometry and the arithmetization of analysis in the history of 19th c. mathematics.

followed by

H.R.P

3 lectures on 17th, 18th and 19th century chemistry.

2nd TERM

H.R.P.

1 lecture on 19th century chemistry

followed by

M.L.R.

6 lectures on 19th century physics: the development of the kinetic theory of gases, the laws of thermodynamics and the concept of the electromagnetic field.

followed by

M.P.E.

4 lectures on 19th century biology: cell theory and theories of evolution.

3rd TERM

Project in history of science. An extended essay on a selected topic in the history of physics, chemistry, mathematics or biologoy.

Total Number of Lectures for History of Science I and II

M.P.Earles

15 lectures

Biology

H.R. Post

4 lectures

Chemistry

D.A. Gillies

7 lectures

Mathematics

M.L.G. Redhead

21 lectures

Physics

TOTAL

47 lectures